FORM PTO-1390 (REV. 10-2003) . - U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTORNEY 'S DOCKET NUMBER SHI 19.363 (310010-00078) TRANSMITTAL LETTER TO THE UNITED STATES U.S. APPLICATION NO. (If known, see 37 CFR 1.5 DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/US03/06580 05 MARCH 2003 (05.03.2003) 05 MARCH 2002 (05.03.2002) TITLE OF INVENTION FAST WARM UP PULSE TUBE APPLICANT(S) FOR DO/EO/US Jin Lin GAO, et al. Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). 5. X A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). 7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. 8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)). 9. X An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. 🗶 An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 12. 13. A preliminary amendment. 14. An Application Data Sheet under 37 CFR 1.76. 15. A substitute specification. 16. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 17. A second copy of the published international application under 35 U.S.C. 154(d)(4). 18. 19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). copy of WO 03/076854 A1 Filed by Express Mail 20. Other items or information: (Receipt No. EL980189421US) on July 2, 2004 The Commissioner is hereby authorized to charge any pursuant to 37 C.F.R. 1.10. additional fees which may be required, or credit any

overpayment to Deposit Account No. 50-1290.

U.S. APPL/GATTON NO. (FFt.)	007982	INTERNATIONAL APPLICATION NO. PCT/US03/06580		ATTORNEY'S DO	OCKET NUMBER 8 (310010-0007)
21. The following fees are submitted:				CALCULATIONS	
BASIC NATIONAL	_				
Neither internation	al preliminary exa	amination fee (37 CFR 1.482) 1.445(a)(2)) paid to USPTO prepared by the EPO or JPO	£1000 00		
International prelir	ninary examinatio	n fee (37 CFR 1.482) not paid to port prepared by the EPO or JPC	\$1080.00 \$\text{5}\$\$\tag{920.00}\$		
International prelir but international se	ninary examinatio earch fee (37 CFR	n fee (37 CFR 1.482) not paid to 1.445(a)(2)) paid to USPTO	USPTO \$770.00		
International prelir but all claims did n	ninary examinatio lot satisfy provisio	n fee (37 CFR 1.482) paid to US ons of PCT Article 33(1)-(4)	SPTO \$730.00		
and all claims satis	fied provisions of	n fee (37 CFR 1.482) paid to US PCT Article 33(1)-(4)	\$100.00		1.
				\$ 770.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
CLAIMS	NUMBER FILE	ED NUMBER EXTRA	RATE	\$	
Total claims	12 - 20		x \$18.00	\$ 0	_
Independent claims	4 - 3		x \$86.00	\$ 86.00	
MULTIPLE DEPEN		` · · · · · · · · · · · · · · · · · · ·	+ \$290.00	\$	
TOTAL OF ABOVE CALCULATIONS =				\$ 856.00	
Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$	
SUBTOTAL =				\$ 856.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
		TOTAL NATIO	NAL FEE =	\$ 856.00	
Fee for recording the accompanied by an	e enclosed assignn appropriate cover	nent (37 CFR 1.21(h)). The assisheet (37 CFR 3.28, 3.31). \$40.	gnment must be 00 per property +	\$ 40	
		TOTAL FEES E	NCLOSED =	\$ 896.00	
				Amount to be refunded:	\$
				charged:	\$
b. Please char A duplicate c. The Commoverpayme d. Fees are to	rge my Deposit Accept of this shee copy of this shee dissioner is hereby nt to Deposit Accept be charged to a creek	to cover the count No. 50-1290 in t is enclosed. authorized to charge any additionant No. 50-1290 . A duplic edit card. WARNING: Informacluded on this form. Provide	the amount of \$ 896 onal fees which may be ate copy of this sheet ation on this form may	to cover the required, or credit is enclosed.	any redit card
	d and granted to	e limit under 37 CFR 1.495 has restore the application to pend	ling status.	tion to revive (37/C	CFR 1.137 (a)
CUSTOMER I	NUMBER 026	304	SIGNATU Samson	RE Helfgott //	1
KATTEN MU 575 Madison A		ROSENMAN	NAME 23,072	<u> </u>	<u></u>
New York, New York 10022-2585					
(212) 940-8800			REGISTRA	ATION NUMBER	
(212) 940-8986					